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**Soft tissue profile**  
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**Soft tissue**  
Lip Curve Changes in Females with Premolar Extraction or Nonextraction Treatment (Moseling and Woods). 2004;74:51-62

**Soft tissues**  
Soft Tissue Facial Morphology in Obese Adolescents: A Three-Dimensional Noninvasive Assessment (Ferrario et al). 2004;74:37-42

**Space changes**  
Growth and Treatment Changes Distal to the Mandibular First Molar: A Lateral Cephalometric Study (Sable and Woods). 2004;74:367-374

**Special jig**  
The Use of an Individual Jig in Measuring Tooth Length Changes (Brezniak et al). 2004;74:778-783

**Speech**  
An Evaluation of Dynamic Lip-Tooth Characteristics During Speech and Smile in Adolescents (Ackerman et al). 2004;74:43-50  
Comparison of the Effect on Oral Discomfort of Two Positioning Techniques with Lingual Brackets (Hohoff et al). 2004;74:226-233

**Speed**  
Enhanced Speed and Precision of Measurement in a Computer-Assisted Digital Cephalometric Analysis System (Chen et al). 2004;74:501-507

**Stainless steel archwires**  
Nickel Content of As-Received and Retrieved NiTi and Stainless Steel Archwires: Assessing the Nickel Release Hypothesis (Eliades et al). 2004;74:151-154

**Study dental casts**  
Changes in Dental Arch Measurements of Young Adults with Normal Occlusion—A Longitudinal Study (Tibana et al). 2004;74:618-623

**Subjective treatment need**  
Orthodontic Treatment Need in Asian Adult Males (Soh and Sandom). 2004;74:767-771

**Systematic review**  
Nonlinear Behavior of Search Strategies for Identifying Relevant Orthodontic Articles (Stamm and Hohoff). 2004;74:316-318

**T**

**Temporomandibular disorders (TMD)**  
Malocclusion and Temporomandibular Disorder: A Comparison of Adolescents with Moderate to Severe Dysfunction with those without Signs and Symptoms of Temporomandibular Disorder and Their Further Development to 30 Years of Age (Mohlin et al). 2004;74:319-327

**Temporomandibular disorders**

Association of Malocclusion and Functional Occlusion With Signs of Temporomandibular Disorders in Adults: Results of the Population-based Study of Health in Pomerania (Gesch et al). 2004;74:512-520

**TGF- $\beta$ 1**

Absence of Association Between Transforming Growth Factor- $\beta$ 1 Promoter Polymorphisms and Hypodontia (Peres et al). 2004;74:665-671

**Third molar germs**

Agenesis of Third Molar Germs Depends on Sagittal Maxillary Jaw Dimensions in Orthodontic Patients in Japan (Kajii et al). 2004;74:337-342

**Three-dimensional analysis**

Morphologic Characteristics of the Dentition and Palate in Cases of Skeletal Asymmetry (Hayashi et al). 2004;74:26-30

**Three-dimensional**

Soft Tissue Facial Morphology in Obese Adolescents: A Three-Dimensional Noninvasive Assessment (Ferrario et al). 2004;74:37-42

**Three dimension**

Three-dimensional Facial Imaging: Accuracy and Considerations for Clinical Applications in Orthodontics (Lee et al). 2004;74:587-593

**Thromboxane A<sub>2</sub>**

Effects of PG<sub>I</sub><sub>2</sub> and TXA<sub>2</sub> Analogs and Inhibitors in Orthodontic Tooth Movement (Umit Gurton et al). 2004;74:526-532

**TiMolium&trade**

Mechanical Properties and Surface Characteristics of Three Archwire Alloys (Krishnan and Kumar). 2004;74:823-829

**TiMolium**

Weld Characteristics of Orthodontic Archwire Materials (Krishnan and Kumar). 2004;74:533-538

**Tissue remodeling/inflammation**

Gingival Endothelial and Inducible Nitric Oxide Synthase Levels During Orthodontic Treatment: A Cross-Sectional Study (D'Attilio et al). 2004;74:849-856

**Titanium screw**

Severe Anterior Open-Bite Case Treated Using Titanium Screw Anchorage (Kuroda et al). 2004;74:558-567

Screw-type Implants Used as Anchorage for Lingual Orthodontic Mechanics: A Case of Bimaxillary Protrusion with Second Premolar Extraction (Kawakami et al). 2004;74:715-719

**Titanium**

Mechanical Properties and Surface Characteristics of Three Archwire Alloys (Krishnan and Kumar). 2004;74:823-829

**Tooth-borne**

Premaxillary Distraction Osteogenesis with an Individual Tooth-Borne Appliance (Bengi et al). 2004;74:420-431

**Tooth agenesis**

Absence of Association Between Transforming Growth Factor- $\beta$ 1 Promoter Polymorphisms and Hypodontia (Peres et al). 2004;74:665-671

**Tooth angulation**

Morphology of the Palatal Vault of Primary Dentition in Transverse View (Tsai and Tan). 2004;74:772-777

**Tooth development**

Angular Changes and Their Rates in Concurrence to Developmental Stages of the Mandibular Second Premolar (Wasserstein et al). 2004;74:332-336

**Tooth eruption**

A Systematic Review of the Consequences of Premature Birth on Palatal Morphology, Dental Occlusion, Tooth-Crown Dimensions, and Tooth Maturity and Eruption (Paulsson et al). 2004;74:269-279

**Tooth movement**

Changes in the Periodontal Ligament After Experimental Tooth Movement Using High and Low Continuous Forces in Beagle Dogs (Von Böhl et al). 2004;74:16-25

Changes in Response Properties of Periodontal Mechanoreceptors After Experimental Orthodontic Tooth Movement in Rats (Nakanishi et al). 2004;74:93-99

**Tooth size**

A Systematic Review of the Consequences of Premature Birth on Palatal Morphology, Dental Occlusion, Tooth-Crown Dimensions, and Tooth Maturity and Eruption (Paulsson et al). 2004;74:269-279

**Tooth width ratio**

Tooth Width Ratios in Crowded and Noncrowded Dentitions (Bernabé et al). 2004;74:763-766

**TOP system**

Comparison of the Effect on Oral Discomfort of Two Positioning Techniques with Lingual Brackets (Hohoff et al). 2004;74:226-233

**Transfer tray removal**

Effect of Time on Bond Strength in Indirect Bonding (Klocke et al). 2004;74:245-250

**Transverse dimension**

Semiradial Maxillary Expansion—A Study of Long-Term Transverse Effects in Older Adolescents and Adults (İşeri and Özsoy). 2004;74:71-78

**Transverse discrepancy**

Comparison of Dental Arch and Alveolar Widths of Patients with Class II, Division 1 Malocclusion and Subjects with Class I Ideal Occlusion (Sayin and Türkkaçman). 2004;74:356-360

**Transverse view**

Morphology of the Palatal Vault of Primary Dentition in Transverse View (Tsai and Tan). 2004;74:772-777

**Treatment effects**

The Mechanism of Class II Correction in Surgical Orthodontic Treatment of Adult Class II, Division 1 Malocclusions (Pancherz et al). 2004;74:798-807

**Treatment need**

Comparison between the Opinions of Tanzanian Parents and Their Children on Dental Attractiveness (Mugonzibwa et al). 2004;74:63-70

**Treatment relapse**

Stability of Class II, Division 1 Treatment with the Headgear-Activator Combination Followed by the Edgewise Appliance (Janson et al). 2004;74:594-604

**Treatment time**

Correlation of the Cranial Base Angle and Its Components with Other Dental/Skeletal Variables and Treatment Time (Andria et al). 2004;74:361-366

**Treatment**

Orthodontic Care in Suburban Cuyahoga County, Ohio: Who Provides Treatment and Whom Do They Treat? (Hans et al). 2004;74:293-297

**Tungsten-quartz halogen**

Evaluation of Light Curing Units Used for Polymerization of Orthodontic Bonding Agents (Oyama et al). 2004;74:808-813

**Turkish population**

Facial Profile Preferences Among Various Layers of Turkish Population (Türkkahraman and Gökalp). 2004;74:640-647

**Turkish**

The Relationship Between Bruxism and Occlusal Factors Among Seven- to 19-Year-Old Turkish Children (Demir et al). 2004;74:672-676

**Typodonts**

Evaluation of the Frictional Resistance of Conventional and Self-ligating Bracket Designs Using Standardized Archwires and Dental Typodonts (Henao and Kusy). 2004;74:202-211

**U****Unilateral**

Comparison of Skeletal and Dental Morphology in Asymptomatic Volunteers and Symptomatic Patients with Unilateral Disk Displacement with Reduction (Gidarakou et al). 2004;74:212-219

**Upper molar distalization**

Intraosseous Screw-Supported Upper Molar Distalization (Gelgör et al). 2004;74:836-848

**Utah paradigm**

A 2003 Update of Bone Physiology and Wolff's Law for Clinicians (Frost). 2004;74:3-15

**Utilization**

Orthodontic Care in Suburban Cuyahoga County, Ohio: Who Provides Treatment and Whom Do They Treat? (Hans et al). 2004;74:293-297

## V

**Video imaging**

Facial Profile Preferences Among Various Layers of Turkish Population (Türkkahraman and Gökalp). 2004;74:640-647

## W

**Welding**

Weld Characteristics of Orthodontic Archwire Materials (Krishnan and Kumar). 2004;74:533-538

**Wire cross section**

Nonlinear Large-Deflection Analysis of Orthodontic Wires (Hayashi et al). 2004;74:112-117

## X

**Xylitol lozenge**

Evaluation of the Dental Plaque pH Recovery Effect of a Xylitol Lozenge on Patients with Fixed Orthodontic Appliances (Sengun et al). 2004;74:240-244

